```
ANSWER 10 OF 17 CAPLUS COPYRIGHT 2001 ACS
L3
AN
    1997:175084 CAPLUS
DN
    126:168823
    Skin test for diabetes and other autoimmune diseases
ΤI
    Endl, Josef; Ganz, Manfred; Stahl, Peter; Kientsch-Engel, Rosemarie; Jung,
IN
    Guenther-Gerhard; Pozzilli, Paolo; Donie, Frederic
PA
    Boehringer Mannheim Gmbh, Germany
so
    Ger. Offen., 12 pp.
    CODEN: GWXXBX
DT
    Patent
LΑ
    German
FAN.CNT 1
    PATENT NO.
                   KIND DATE
                                        APPLICATION NO. DATE
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PΙ
    DE 19526561
                   A1 19970123
                                        DE 1995-19526561 19950720
    WO 9703704
                     A2 19970206
                                        WO 1996-EP3192 19960719
    WO 9703704
                    A3 19970605
        W: AU, CA, CN, IL, JP, KR, NO, NZ, US
        RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE
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    CA 2225145
                           19970206
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    AU 9666582
                     A1
                           19970218
                                         AU 1996-66582
                                                          19960719
                                                        19960719
                     A2
                                    EP 1996-926371
    EP 839058
                           19980506
        R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, NL, SE, IE, FI
                                    CN 1996-195689 19960719
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                           19980826
    CN 1191493
    JP 11509538
                      T2
                           19990824
                                         JP 1996-506304
                                                          19960719
                                         NO 1998-252
    NO 9800252
                     Α
                          19980120
                                                          19980120
PRAI DE 1995-19526561
                           19950720
                          19960719
    WO 1996-EP3192
    An autoimmune disease such as diabetes mellitus, or a predisposition to
AB
    such a disease, is diagnosed by intradermal administration of a suitable
    autoantigen or related peptide and observation after >24 h of a local
    T-cell-mediated pos. cellular reaction (nodule) at the site of antigen
    administration. The same method can be applied to detection of T-cells
    which react with tumor antigens in diagnosis of tumors. The peptide is
    .gtoreq.15 residues in length to allow recognition of and binding to an
    MHC mol. and reaction of the complex with the corresponding T-cell
    receptor. Thus, recombinant human glutamate decarboxylase was injected
    intradermally into juvenile-onset diabetes mellitus patients; appearance
    of a nodule 48 h later at the site of injection was considered a pos.
    reaction.
IT
    166895-85-8
                  166895-86-9
                               166895-87-0
                                             166895-88-1
                                                           166895-89-2
    166895-90-5
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                               166895-92-7
                                             166895-93-8
                                                           166895-94-9
    166895-95-0
                  166895-96-1
                               166895-97-2
                                             166895-98-3
                                                           166895-99-4
                 166896-01-1
                               166896-02-2
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    166896-00-0
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    166896-05-5
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                               166896-07-7
                                             186909-44-4
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                  186909-50-2
                              186909-52-4
                                             186909-54-6
    186909-48-8
    RL: BAC (Biological activity or effector, except adverse); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (of glutamate decarboxylase, as autoantigen in diabetes diagnosis; skin
       test for diabetes and other autoimmune diseases)
L3
    ANSWER 11 OF 17 CAPLUS COPYRIGHT 2001 ACS
AN
    1997:155018 CAPLUS
DN
    126:156406
    Peptides and peptide derivatives from glutamic acid decarboxylase for the
ΤI
    early diagnosis and treatment of type I diabetes
IN
    Endl, Josef; Stahl, Peter; Albert, Winfried; Schendel, Dolores; Boitard,
    Christian; van Endert, Peter; Jung, Guenther-Gerhard
PA
    Boehringer Mannheim Gmbh, Germany
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SO

Ger. Offen., 16 pp.

CODEN: GWXXBX

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DT
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LΑ
    German
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    DE 19525784 A1 19970116
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                                       DE 1995-19525784 19950714
    WO 9704085
                    A1 19970206
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                    A1 19980506 EP 1996-925751 19960715
    EP 839191
        R: AT, CH, DE, ES, FR, GB, IT, LI
    JP 10511985 T2 19981117
                                        JP 1996-506274 19960715
PRAI DE 1995-19525784
                          19950714
    WO 1996-EP3093
                          19960715
AΒ
    Peptides and their derivs. obtained from glutamic acid decarboxylase (GAD)
    are described, which are used alone or in complexes with class II MHC
    mols. for the detection of a predisposition to diabetes, and for the
    treatment of diabetes by building up an immune tolerance to GAD. Thus,
    GAD-specific T cells were established from peripheral blood lymphocytes
    from type I diabetics, cultured, and their proliferative response to
    recombinant human GAD and GAD-derived peptides was studied.
TΤ
    186909-44-4P
                  186909-46-6P 186909-48-8P 186909-50-2P
    186909-52-4P
                  186909-54-6P
    RL: BAC (Biological activity or effector, except adverse); BPN
     (Biosynthetic preparation); THU (Therapeutic use); BIOL (Biological
    study); PREP (Preparation); USES (Uses)
       (peptides and peptide derivs. from glutamic acid decarboxylase for
       early diagnosis and treatment of type I diabetes)
L3
    ANSWER 12 OF 17 CAPLUS COPYRIGHT 2001 ACS
AN
    1995:632213 CAPLUS
DN
    123:28599
TI
    A cDNA for the 64-kilodalton glutamic acid decarboxylase associated with
    autoimmune disease and its uses
IN
    Tobin, Allan J.; Erlander, Mark G.; Kaufman, Daniel L.; Clare-Salzler,
    Michael J.
    Regents of the University of California, USA
PA
SO
    PCT Int. Appl., 100 pp.
    CODEN: PIXXD2
DT
    Patent
LA
    English
FAN.CNT 4
                  KIND DATE
    PATENT NO.
                                      APPLICATION NO. DATE
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PΙ
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    WO 9507992
                         19950622
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        RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE
               A 19971007 US 1993-123859 19930917
    US 5674978
    AU 9479201
                        19950403
                    A1
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    AU 697058
                    B2 19980924
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        R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE
    JP 09503387 T2 19970408
                                     JP 1995-509191 19940824
PRAI US 1993-123859 A
                         19930917
    US 1990-586536 A2 19900921
    US 1991-716909 B2 19910618
    WO 1994-US9478 W
                         19940824
    A gene encoding the GAD65 glutamic acid decarboxylase that is a
AΒ
    significant autoantigen in the autoimmune disease complication of diabetes
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mellitus is cloned for use in the manuf. of the protein for diagnosis, prophylaxis and therapy of the disease. A cDNA for the rat hippocampus

GAD65 was cloned by screening a cDNA bank in .lambda.ZAP with a probe from the cat GAD67 gene and expressed in Escherichia coli. The identity of the enzyme with the autoantigen was demonstrated immunochem. The rat GAD65 and GAD67 isoenzymes were shown to be encoded by sep. genes. enzymes showed slightly different tissue distributions with GAD65 more common in type II Golgi neurons than GAD67. The utility of antibodies to the enzyme as a diagnostic marker was demonstrated. GAD65 used as an antigen was found to stimulate a proliferation of T-cells in NOD mice. Attempts to induce immune tolerance and the identification of epitopes of the protein are described. 152468-43-4 152468-44-5 152468-45-6 164124-72-5 164124-73-6 164124-74-7 164124-75-8 164124-76-9 164124-77-0 **164124-78-1** 164124-79-2 164124-80-5 164124-81-6 164124-82-7 164124-83-8 164124-84-9 RL: PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (amino acid sequence, peptide of rat glutamate decarboxylase GAD65; cDNA for 64-kilodalton glutamic acid decarboxylase assocd. with autoimmune disease and its uses) ANSWER 13 OF 17 CAPLUS COPYRIGHT 2001 ACS 1993:669001 CAPLUS 119:269001 Peptides immunochemically reactive with antibodies directed against hepatitis C virus and their use in diagnosis Habets, Winand Johannes Antonius; Hellings, Jan Albert AKZO N. V., Neth. PCT Int. Appl., 29 pp. CODEN: PIXXD2 Patent English FAN.CNT 1 PATENT NO. KIND DATE APPLICATION NO. DATE -------------- -----WO 9313127 **A**1 19930708 WO 1992-EP2998 19921224 W: AU, CA, FI, JP, KR, US RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE ZA 9208954 19930519 ZA 1992-8954 19921119 Α AU 9333473 19930728 AU 1993-33473 A119921224 JP 05271277 A2 JP 1992-344448 19931019 19921224 EP 621868 EP 1993-902132 19941102 A119921224 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE PRAI EP 1991-203408 19911224 WO 1992-EP2998 19921224 MARPAT 119:269001 Peptides A-X1-X2-X3-X4-L-X5-X6-E-F-X7-X8-X9-B (I; A=H, amino acid, polypeptide; B=OH, amino acid, polypeptide; X1-X9= any amino acid) can be used in detection of anti-hepatitis C virus antibodies. These peptides are derivs. of peptide DREVLYREFDEMB, a peptide which is part of the protein encoded by the ORF region of the SOD/HCV C100-3 clone. Based on replacement of each amino acid and anal. of the recognition of the analogs by anti-viral antibodies, only Leu-5, Glu-8, and Phe-9 were found to be crit. for immunoreactivity. 151310-57-5 151310-58-6 151310-59-7 151310-60-0 151310-61-1 151310-62-2 151310-63-3 151310-64-4 151310-65-5 151310-66-6 151310-67-7 151310-68-8 151310-69-9 151310-70-2 151310-71-3 151310-72-4 151310-73-5 151310-74-6 151310-75-7 151310-76-8

151310-80-4

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151310-95-1

151311-00-1

151310-90-6 151310-91-7

151310-81-5

151310-86-0

151310-96-2

151311-01-2

ΙT

L3ΑN

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AB

ΙT

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151310-92-8 151310-93-9 151310-94-0

151310-97-3 151310-98-4 151310-99-5

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                          151336-06-0
151336-09-3
             151336-10-6
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RL: USES (Uses)
(hepatitis C virus peptide analog, for detection of anti-viral antibodies)

- L3 ANSWER 14 OF 17 CAPLUS COPYRIGHT 2001 ACS
- AN 1993:425325 CAPLUS
- DN 119:25325
- TI Cross-competition for binding of .alpha.1-antitrypsin (.alpha.1 AT)-elastase complexes to the serpin-enzyme complex receptor by other serpin-enzyme complexes and by proteolytically modified .alpha.1 AT
- AU Joslin, Gregg; Wittwer, Art; Adams, Steve; Tollefsen, Douglas M.; August, Anna; Perlmutter, David H.
- CS Sch. Med., Washington Univ., St. Louis, MO, 63110, USA
- SO J. Biol. Chem. (1993), 268(3), 1886-93 CODEN: JBCHA3; ISSN: 0021-9258
- DT Journal
- LA English
- AB The serpin-enzyme complex (SEC) receptor recognizes a pentapeptide neo-domain of .alpha.1-antitrypsin (.alpha.1 AT)-elastase complexes and, in so doing, mediates internalization and intracellular catabolism of the macromol. complex, mediates an increase in synthesis of .alpha.1 AT, and elicits neutrophil chemotactic activity. In previous studies the authors have shown that this pentapeptide domain is highly conserved among members of the serpin family and that binding of a synthetic peptide corresponding to this region (125I-peptide 105Y, SIPPEVKFNKPFVYLI, based on .alpha.1 AT sequence 359-374) to HepG2 cells is blocked by several serpin-enzyme complexes. To det. whether the SEC receptor is the primary HepG2 cell surface binding site for these serpin-enzyme complexes, the capacity for serpin-enzyme complexes to compete with each other for binding to the SEC receptor was examd. Binding of 125I-elastase-.alpha.1 AT complexes is blocked by thrombin-antithrombin III (ATIII), thrombin-heparin cofactor II, and cathepsin G-.alpha.1-antichymotrypsin (.alpha.1 ACT) complexes. Moreover, unlabeled elastase-.alpha.1 AT complexes compete for binding of 125I-thrombin-ATIII, 125I-thrombin-heparin cofactor II, and 125I-cathepsin G-.alpha.1 ACT complexes. Preformed sol. tissue plasminogen activator-plasminogen activator inhibitor 1 complexes also compete for

binding of elastase-.alpha.1 AT complexes to the SEC receptor but do so to a less effective extent, probably because of a less favorable pentapeptide sequence for binding to the SEC receptor. Under conditions in which these serpin-enzyme complexes would be expected to bind to the SEC receptor there is an increase in synthesis of .alpha.1 AT but not in synthesis of ATIII or .alpha.1 ACT. Proteolytically modified .alpha.1 AT also competes for binding of 125I-elastase-.alpha.1 AT complexes to the SEC receptor and vice versa. The purified 51-kDa N-terminal fragment of .alpha.1 AT does not compete for binding of 125I-elastase-.alpha.1 AT complexes, indicating that the pentapeptide neodomain in the 4-kDa C-terminal fragment is sufficient for binding to the SEC receptor.

IT 124056-48-0 144500-60-7 147859-90-3 **147859-91-4**

148195-66-8 148195-70-4

RL: BIOL (Biological study)

(serpin-enzyme complex receptors on HepG2 cells specificity for, structure in relation to)

- L3 ANSWER 15 OF 17 CAPLUS COPYRIGHT 2001 ACS
- AN 1991:578200 CAPLUS
- DN 115:178200
- TI Analogs of human plasminogen activator inhibitor for use in thrombolysis
- IN Pannekoek, Hans
- PA Stichting Centraal Laboratorium van de Bloedtransfusiedienst van het Nederlandse Rode Kruis, Neth.
- SO PCT Int. Appl., 32 pp.
 - CODEN: PIXXD2
- DT Patent
- LA English
- FAN.CNT 1

ray. CNT I						
	PA:	TENT NO.	KIND DATE		APPLICATION NO.	DATE
PI	WO	9105048	A1 19910418		WO 1990-NL145	19901003
		W: JP, US				
		RW: AT, BE,	CH, DE, DK, ES,	FR,	GB, IT, LU, NL, SE	
	NL	8902454	A 19910501		NL 1989-2454	19891003
	ΕP	494929	Al 19920722		EP 1990-914972	19901003
	ΕP	494929	B1 19950823			
		R: AT, BE,	CH, DE, DK, ES,	FR,	GB, IT, LI, LU, NL,	, SE
	JΡ	05503211	T2 19930603		JP 1990-513980	19901003
	ES	2078979	T3 19960101		ES 1990-914972	19901003
PRAI	NL	1989-2454	19891003			
	WO	1990-NL145	19901003			

Analogs of plasminogen activator inhibitor (PAI) in which the active site peptide is replaced by that of antithrombin III are described and manufd. in Escherichia coli. These analogs are potentially useful in the prevention of re-occlusion after thrombolysis or fibrinolysis using tissue plasminogen activator. Site-directed mutagenesis of the cloned cDNA was by std. methods and the new gene expressed using the vector pMBL11 and the protein purified by immunoaffinity chromatog. Second-order rate consts. for thrombin inhibition for the analogs were 3-13 .times. 104 M-1 sec-1 in the absence of vitronectin and 2.9-18 .times. 105 in its presence (c.f. 103 and 2 .times. 105 resp. for the wild-type PAI).

IT **136529-26-5** 136529-28-7 136529-29-8

RL: PROC (Process)

(substitution of, with corresponding antithrombin III peptide, thrombolytics and fibrinolytics in relation to)

- L3 ANSWER 16 OF 17 CAPLUS COPYRIGHT 2001 ACS
- AN 1990:429270 CAPLUS
- DN 113:29270
- TI Drug delivery using pulmonary surfactant to facilitate absorption
- IN Weber, Allan E.

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Eur. Pat. Appl., 13 pp.
SO
    CODEN: EPXXDW
DT
    Patent
LΑ
    English
FAN.CNT 1
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                         19891004
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                    A3 19900516
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    AU 8930737 A1 19891005
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                                       JP 1989-80213
    JP 02006405
                    A2
                         19900110
                                                      19890330
PRAI US 1988-175741
                         19880331
    Pulmonary drug delivery systems include a drug admixed or covalently
    bonded to a component of a surfactant protein and phospholipid mixt. A
    compn. contained leuprolide acetate, dipalmitoylphosphatidylcholine,
    palmitic acid, tripalmitin, and a soln. of bovine lung lipids.
                117149-09-4 117149-10-7 117149-11-8
IT
    117149-08-3
                                                        117149-12-9
    117259-36-6 117259-37-7 117259-42-4 117259-43-5
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    117259-51-5 117259-53-7 117259-54-8 117259-55-9
    117278-76-9
    RL: BIOL (Biological study)
       (pulmonary surfactant component, for drug delivery to lung)
    ANSWER 17 OF 17 CAPLUS COPYRIGHT 2001 ACS
L3
AN
    1989:89914 CAPLUS
DN
    110:89914
    Recombinant pulmonary hydrophobic surfactant-associated proteins and their
ΤI
    use in diagnosis and treatment of pulmonary diseases
    Whitsett, Jeffrey A.; Fox, J. Lawrence; Pilot-Matias, Tami J.; Meuth,
TN
    Joseph L.; Sarin, Virender K.
PA
    USA
SO
    PCT Int. Appl., 139 pp.
    CODEN: PIXXD2
DΨ
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LΑ
    English
FAN.CNT 2
    PATENT NO.
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                                       A1 19880505
PΙ
    WO 8803170
                                      WO 1987-US2536 19871002
        W: JP
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                                       WO 1986-US2258
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                   A1 19871119
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                   A1 19880630
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                                                       19871203
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    EP 307513
                   A2 19890322
                                       EP 1987-117967
                                                       19871204
                   A3 19900110
    EP 307513
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    ZA 8709208 A 19880831
DK 8804415 A 19880805
NO 8803484 A 19881007
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                                                      19871208
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PRAI WO 1986-US2258
                        19861024
    US 1986-939206
                        19861208
    US 1987-60719
                         19870610
    US 1987-101680
                        19871001
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Abbott Laboratories, USA

PΑ

US 1986-860239 19860506 WO 1987-US2536 19871002 WO 1987-US3180 19871203

The genes and cDNAs encoding human hydrophobic surfactant-assocd. proteins (SAPs) SAP(Val) and SAP(Phe) are cloned, sequenced, and expressed in Escherichia coli and mammalian cells. SAP peptides are synthesized and antibodies against these peptides are prepd. The antibodies may be used to diagnose diseases characterized by insufficient pulmonary surfactant material (e.g. hyaline membrane disease), and the SAPs may be used to treat such diseases. Human cDNA for SAP(Val) proprotein was fused with the gene for E. coli CMP-KDO synthetase and the resulting chimeric gene was expressed in E. coli. SAP(Val) or SAP(Phe) were mixed with lipids (e.g. dipalmitoylphosphatidylcholine and phosphatidylglycerol) and tested with a modified Wilhelmy Surface Balance: the proteins substantially decreased the surface tension and increased adsorption. SAP peptides were also found to increase the lipid uptake of 3T3 and type II cells in culture by 7 to 70-fold.

117259-53-7 117259-54-8 117259-55-9

RL: PRP (Properties)

IT

(surfactant-assocd. protein precursors)